



5.1.4
11/04/02

CORPORATE HEADQUARTERS

November 4, 2002

Ms. Linda Meyer (WCM-121)
Project Manager RCRA/Superfund
U.S. EPA Region 10
1200 Sixth Avenue
Seattle, WA 98101

RECEIVED
NOV 08 2002

Subject: Eastern Michaud Flats Superfund Site - Simplot Plant Area Remedial Design/Remedial Action Monthly Progress Report No. 6 (October 2002)

Dear Ms. Meyer:

This letter documents the progress made in the remedial design/remedial action at the Simplot Plant Area portion of the Eastern Michaud Flats Superfund Site. This progress report has been prepared in accordance with the requirements of Paragraph 29 of the Consent Decree and of the Statement of Work.

I. Activities/Tasks

The following principal actions were performed:

- Simplot revised the Sampling and Analysis Plan to support remedial design for the Dewatering Pit based on EPA comments and resubmitted on October 10. Samples were collected per the plan on October 16;
- Simplot began field work to support design of the groundwater extraction system per the work plan submitted in September;
- Simplot participated in meetings on design issues with EPA and its contractors, IDEQ and the ShoBan Tribes in Pocatello on October 16 and 17.

The following principal actions are expected in the period from November 1 to December 15:

- Simplot will continue field work in support of groundwater extraction system design;
- Simplot will submit revised design reports for the Dewatering Pit and Gypsum Stack Roads, based on comments received from the Agencies;
- Simplot will continue design analysis for the groundwater extraction system and prepare materials as discussed in the follow-up documentation for the October 16 meeting; and
- Simplot will initiate revision of other design documents submitted in August, if Agency comments are received.

II. Laboratory Activities and Data Generated

USEPA SF

1274977

Ms. Linda Meyer – EPA
November 4, 2002
Page 2 of 2

A. A voluntary groundwater sampling event was performed in August. Data are provided in Attachment

Samples were collected from the Dewatering Pit for TCLP analysis. These data are provided in Attachment B. Per the Sampling and Analysis Plan, a summary report of the sampling event will also be included the revised Dewatering Pit Remedial Action Work Plan. The analytical laboratory analyzed the samples for total metals in error. These data are also provided in Attachment B.

III. Deliverables and Milestones Completed in Reporting Period

Deliverables are described above in Section I.

IV. Deliverables and Milestones Expected to be Completed in Next Reporting Period.

See Section I.

V. Issues Identified and Actions Taken to Provide Resolution

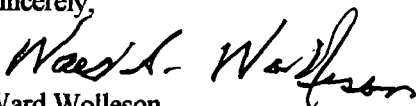
None.

VI. Activities Undertaken in Support of the Community Relations Plan

None.

I hope this provides you with the information you require. Please do not hesitate to call me @ (208) 389-7558 if you have any questions or comments.

Sincerely,


Ward Wolleson
Senior Environmental Engineer
J.R. Simplot Company

C: Doug Tanner - IDEQ Pocatello
Roger Turner - ShoBan Tribe
Alan Prouty – J.R. Simplot Company

Attachment A
Groundwater Data – August 2002 Voluntary Sampling Event

Groundwater Data – August 2002 Voluntary Sampling Event

Groundwater samples were collected from 41 wells on August 7 and 8, 2002. In addition samples were collected from Batiste Spring (sample ID 208BTS) and the Spring at Batiste Road (sample ID 208BRS). Samples were analyzed for arsenic, selenium, and orthophosphate. The laboratory results are attached. The identifiers for the sampling locations are shown in the box near the upper right corner of the page. The identifiers all have a “208” prefix and then are followed by the well number. Samples with a “600” series identification are duplicates; samples with a “700” series identification are rinsate blanks; “PB1” is a pour blank; “SD1” is DI water.

Field information is currently being obtained from the samplers (Hydrometrics), and supporting information has been requested from the lab. Once received, the data will be evaluated, qualified as appropriate and entered into the groundwater database, which is currently being updated.

4

1

EPA SAMPLE NO.

208BTS

Contract: _____

Case No.: _____

SAS No. : _____

SDG No.: 102697

Lab Sample ID: W306824

Date Received: 08/08/02

0.0

MG/L_

[illegible]

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

1

INORGANIC ANALYSES DATA SHEET

208SDI

4

EPA SAMPLE NO.

208313

Contract: _____

Lab Code: SILVER

Case No.: _____

SAS No. : _____

SDG No.: 102697

Lab Sample ID: W306828

Date Received: 08/08/02

0.0

Concentration Units (ug/L or mg/kg dry weight): MG/L

[illegible]

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

8

EPA SAMPLE NO.

208316

Concentration Units (ug/L or mg/kg dry weight): MG/L

[illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

9

EPA SAMPLE NO.

208343

18

3

Contract: _____

Case No.:

SAS No.:

SDG No.: 102697

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

[illegible]

22

EPA SAMPLE NO.

208BRSD

Contract:

Case No.:

SAS No. :

SDG No.: 102697

WATER

Level (low/med): LOW

0.0

% Solids for Duplicate: 0.0

UG/L

[illegible]

EPA SAMPLE NO.

208505

6 Solids:	0.0
-----------	-----

Concentration Units (ug/L or mg/kg dry weight): MG/L

[illegible]

Comments:

16

EPA SAMPLE NO.

Lab Name: SVL_ANALYTICAL_INC._____ Contract: _____

Lab Code: SILVER Case No.: _____ SAS No.: _____ SDG No.: 102696

Matrix (soil/water): WATER

Lab Sample ID: W306818

Level (low/med): LOW__

Date Received: 08/08/02

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/L_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____
 Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____
 Comments: _____

3

Lab Name: SVL_ANALYTICAL_INC._____ Contract: _____

Lab Code: SILVER Case No.: _____ SAS No.: _____ SDG No.: 102696

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

[illegible]

3

Contract: _____

Case No.: _____

SAS No. : _____

SDG No.: 102696

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

31

3

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Arsenic_____
Selenium_____
Ortho-P_____

EPA SAMPLE NO.

Lab Name: SVL_ANALYTICAL_INC._____ Contract: _____

Lab Code: SILVER Case No.: _____ SAS No.: _____ SDG No.: 102696

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

[illegible]

1

INORGANIC ANALYSES DATA SHEET

208PB1

1

INORGANIC ANALYSES DATA SHEET

208PE14

1

INORGANIC ANALYSES DATA SHEET

208317

10

EPA SAMPLE NO.

208332

Contract:

Case No.:

SAS No.:

SDG No.: 102721

Lab Sample ID: W307038

Date Received: 08/09/02

```
% Solids:          0.0
```

Concentration Units (ug/L or mg/kg dry weight): MG/L

[illegible]

Clarity Before: CLEAR_

Texture: _____

Clarity After: CLEAR_

Artifacts: _____

Comments:

1

INORGANIC ANALYSES DATA SHEET

208334

1

INORGANIC ANALYSES DATA SHEET

208341

1

INORGANIC ANALYSES DATA SHEET

208342

14

EPA SAMPLE NO.

208344

Concentration Units (ug/L or mg/kg dry weight): MG/L

ILM02.1

1

INORGANIC ANALYSES DATA SHEET

208701

24

24

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

[illegible]

23

23

23

23

23

23

23

26

3

BLANKS

Contract: _____

Lab Code: SILVER

Case No.:

SAS No. :

SDG No.: 102721

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

[illegible]

21

21

Preparation Blank Concentration Units (ug/L or mg/kg): _____

ILM02.1

5A
SPIKE SAMPLE RECOVERY

208321S

Contract:

SDG No.: 102721

Level (low/med): LOW

Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Comments:

29

EPA SAMPLE NO.

208341S

Contract:

Case No.:

SAS No.:

SDG No.: 102721

Level (low/med): LOW

Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

ments:

6
DUPLICATES

208341D

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

32

EPA SAMPLE NO.

208344D

Solids for Sample: 0.0 % Solids for Duplicate: 0.0

[illegible]

3

EPA SAMPLE NO.

208307

Concentration Units (ug/L or mg/kg dry weight): MG/L

[illegible]

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

1

INORGANIC ANALYSES DATA SHEET

208308

5

EPA SAMPLE NO.

208309

Concentration Units (ug/L or mg/kg dry weight): MG/L

[illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

208310

Concentration Units (ug/L or mg/kg dry weight): MG/L_

Comments:

7

EPA SAMPLE NO.

208323

Contract:

Case No.:

SAS No.:

SDG No.: 102676

Lab Sample ID: W306625

Date Received: 08/07/02

0.0

MG/L

[illegible]

COLORLESS

Clarity Before: CLEAR

Texture: _____

COLORLESS

Clarity After: CLEAR

Artifacts: _____

1
INORGANIC ANALYSES DATA SHEET

208325

Concentration Units (ug/L or mg/kg dry weight): MG/L

[illegible]

ILM02.1

1

INORGANIC ANALYSES DATA SHEET

208327

11

EPA SAMPLE NO.

208333

Concentration Units (ug/L or mg/kg dry weight): MG/L

ILM02.1

1

INORGANIC ANALYSES DATA SHEET

208346

1

INORGANIC ANALYSES DATA SHEET

208518

1

INORGANIC ANALYSES DATA SHEET

208526

1
INORGANIC ANALYSES DATA SHEET

208527

1

INORGANIC ANALYSES DATA SHEET

208600

21

3
BLANKS

Contract: _____

Case No.: _____

SAS No. : _____

SDG No.: 102676

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

[illegible]

3
BLANKS

28

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

[illegible]

3
BLANKS

24

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

3
BLANKS

30

reparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

31

31

31

31

EPA SAMPLE NO.

208323S

Lab Name: SVL_ANALYTICAL_INC._____

Contract: _____

Lab Code: SILVER

Case No.: _____

SAS No.: _____

SDG No.: 102676

matrix (soil/water): WATER_

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

[illegible]

Comments:

5A
SPIKE SAMPLE RECOVERY

33
EPA SAMPLE NO.

5A
SPIKE SAMPLE RECOVERY

208517S

Contract:

Case No.:

SAS No.:

SDG No.: 102676

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

[illegible]

omments:

6
DUPLICATES

208323D

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

[illegible]

6
 DUPLICATES

208346D

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

[illegible]

38

8

STANDARD ADDITION RESULTS

Lab Name: SVL ANALYTICAL INC. Contract:

Lab Code: SILVER Case No.: SAS No.: SDG No.:102676

Concentration Units: ug/L

08/21/17

Attachment B
Dewatering Pit Data

Dewatering Pit Data

Analytical results from the samples collected on October 16 are attached. The sample were collected in accordance with the sampling and analysis plan at the following locations:

- West Pit (EMF-DWP-1002-W1)
- South Pit (EMF-DWP-1002-S1)
- East Pit (EMF-DWP-1002-E1)
- East Pit duplicate (EMF-DWP-1002-E2)

Samples were tested for corrosivity and TCLP metals per the work plan. The materials are not corrosive and all TCLP concentrations were below toxicity characteristic limits. Data quality were acceptable and no results were qualified.

The samples were also tested for total metals by mistake. These results are also attached.

SVL ANALYTICAL, INC.

One Government Gulch ■ P.O. Box 929 ■ Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 ■ Fax: (208)783-0891

REPORT OF ANALYTICAL RESULTS (TCLP)

CLIENT	: JR SIMPLOT	SVL JOB #	: 103716
		SVL SAMPLE #	: 315025
CLIENT SAMPLE ID:	EMF-DWP-1002-W1		
Sample Collected:	10/16/02 14:38		
Sample Receipt	: 10/23/02	Sample Matrix:	Solid Waste
Date of Report	: 10/28/02	Extraction	: TCLP **
		Extracted:	10/24/02

Determination	Result	Units	TCLP Reg. Limit	Method	Analysis Date
Silver	<0.0050	mg/L Ext	5.0	6010B	10/25/02
Arsenic	0.035	mg/L Ext	5.0	6010B	10/25/02
Barium	0.0723	mg/L Ext	100.0	6010B	10/25/02
Cadmium	0.102	mg/L Ext	1.0	6010B	10/25/02
Chromium	<0.0060	mg/L Ext	5.0	6010B	10/25/02
Mercury	<0.00020	mg/L Ext	0.2	7470	10/25/02
Lead	0.0067	mg/L Ext	5.0	6010B	10/25/02
Selenium	0.029	mg/L Ext	1.0	6010B	10/25/02

** Sample extracted according to EPA method 1311 (TCLP).

Certificate: ID ID00019

Reviewed By: Blake Johnson

Date 10/28/02
10/28/02 9:23

SVL ANALYTICAL, INC.

One Government Gulch ■ P.O. Box 929 ■ Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 ■ Fax: (208)783-0891

REPORT OF ANALYTICAL RESULTS (TCLP)

CLIENT : JR SIMPLOT

SVL JOB # : 103716

SVL SAMPLE # : 315026

CLIENT SAMPLE ID: EMF-DWP-1002-S1

Sample Collected: 10/16/02 15:03

Sample Receipt : 10/23/02

Date of Report : 10/28/02

Sample Matrix: Solid Waste

Extraction : TCLP **

Extracted: 10/24/02

Determination	Result	Units	TCLP Reg. Limit	Method	Analysis Date
Silver	<0.0050	mg/L Ext	5.0	6010B	10/25/02
Arsenic	0.026	mg/L Ext	5.0	6010B	10/25/02
Barium	0.0867	mg/L Ext	100.0	6010B	10/25/02
Cadmium	0.0409	mg/L Ext	1.0	6010B	10/25/02
Chromium	0.0284	mg/L Ext	5.0	6010B	10/25/02
Mercury	<0.00020	mg/L Ext	0.2	7470	10/25/02
Lead	<0.0050	mg/L Ext	5.0	6010B	10/25/02
Selenium	0.022	mg/L Ext	1.0	6010B	10/25/02

** Sample extracted according to EPA method 1311 (TCLP).

Certificate: ID ID00019

Reviewed By: _____

*Blake Johnson*Date 10/28/02

10/28/02 9:23

SVL ANALYTICAL, INC.

One Government Gulch ■ P.O. Box 929 ■ Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 ■ Fax: (208)783-0891

REPORT OF ANALYTICAL RESULTS (TCLP)

CLIENT : JR SIMPLOT

SVL JOB # : 103716

SVL SAMPLE # : 315027

CLIENT SAMPLE ID: EMF-DWP-1002-E1

Sample Collected: 10/16/02 15:41

Sample Receipt : 10/23/02

Date of Report : 10/28/02

Sample Matrix: Solid Waste

Extraction : TCLP **

Extracted: 10/24/02

Determination	Result	Units	TCLP Reg. Limit	Method	Analysis Date
Silver	<0.0050	mg/L Ext	5.0	6010B	10/25/02
Arsenic	0.073	mg/L Ext	5.0	6010B	10/25/02
Barium	0.0535	mg/L Ext	100.0	6010B	10/25/02
Cadmium	0.110	mg/L Ext	1.0	6010B	10/25/02
Chromium	0.0063	mg/L Ext	5.0	6010B	10/25/02
Mercury	<0.00020	mg/L Ext	0.2	7470	10/25/02
Lead	0.0062	mg/L Ext	5.0	6010B	10/25/02
Selenium	0.053	mg/L Ext	1.0	6010B	10/25/02

** Sample extracted according to EPA method 1311 (TCLP).

Certificate: ID ID00019

Reviewed By: Blake JohnsonDate 10/28/02

10/28/02 9:23

SVL ANALYTICAL, INC.

One Government Gulch

P.O. Box 929

Kellogg, Idaho

83837-0929

Phone: (208)784-1258

Fax: (208)783-0891

REPORT OF ANALYTICAL RESULTS (TCLP)

CLIENT : JR SIMPLOT

SVL JOB # : 103716

SVL SAMPLE # : 315028

CLIENT SAMPLE ID: EMF-DWP-1002-E2

Sample Collected: 10/16/02 15:41

Sample Receipt : 10/23/02

Date of Report : 10/28/02

Sample Matrix: Solid Waste

Extraction : TCLP **

Extracted: 10/24/02

Determination	Result	Units	TCLP Reg. Limit	Method	Analysis Date
Silver	<0.0050	mg/L Ext	5.0	6010B	10/25/02
Arsenic	0.072	mg/L Ext	5.0	6010B	10/25/02
Barium	0.0502	mg/L Ext	100.0	6010B	10/25/02
Cadmium	0.115	mg/L Ext	1.0	6010B	10/25/02
Chromium	<0.0060	mg/L Ext	5.0	6010B	10/25/02
Mercury	<0.00020	mg/L Ext	0.2	7470	10/25/02
Lead	<0.0050	mg/L Ext	5.0	6010B	10/25/02
Selenium	0.047	mg/L Ext	1.0	6010B	10/25/02

** Sample extracted according to EPA method 1311 (TCLP).

Certificate: ID ID00019

Reviewed By:



Date

10/28/02

10/28/02 9:23

MFG, INC.
DATA EVALUATION CHECKLIST

MFG Project No.: **010121**

Simplot – Dewatering Pit

Lab: **SVL Laboratories – Pocatello, Idaho**

Lab Sample Numbers: **315025 through 315028**

Matrix/Analytical Methods: **Soil/ TCLP Metals by 6010B and TCLP Mercury by 7470**

Field Sample Ids: **EMF-DWP-1002-W1, EMF-DWP-1002-S1, EMF-DWP-1002-E1 and EMF-DWP-1002-E2**

	<u>YES</u>	<u>NO</u>
1. Is a Work Plan, SAP, or QAPP available?	Y	
2. Chain of Custody Records:		
Are the COCs present?	Y	
Are the COCs complete and signed off?	Y	
Were the samples received at or below $4 \pm 2^{\circ}\text{C}$?	NA	
The sample temperature upon receipt was 10°C.		
Specific temperature requirements for storage and handling do not apply to soils.		
Were all samples on the COCs analyzed?	Y	
Were any problems noted?		N
3. Was a project narrative available from the laboratory?		N
Were any problems noted?	NA	
4. Were all holding times met?	Y	
The soil samples were extracted within 8 days of collection and analyzed the next day.		
5. Was the frequency stated in the Work Plan or SAP for field duplicates, equipment rinsate, and trip blanks met?	NA	
6. Were all equipment rinsate blank, trip blank, and method blank results ND?	Y	
The analytes of interest were not detected in the laboratory blank at concentrations greater than the MDLs.		
Field blanks were not submitted with this sample set.		
7. Were all matrices, units, and detection limits reported correctly?	Y	
8. Were all surrogate recoveries within control limits?	NA	

- | | <u>YES</u> | <u>NO</u> |
|---|------------|-----------|
| 9. Were all LCS spike recoveries within control limits?
The LCS recoveries ranged from 98.5% to 104%. Lab control limits were 85% to 115%. LCSDs were not reported. | Y | |
| 10. Were all MS spike recoveries and RPDs within control limits?
The MS recoveries were within the range of 97.6% to 128.5%. The lab performed a post-digestion spike for selenium with a 125% recovery. Lab control limits were 75% to 125%. MSDs were not reported. | Y | |
| 11. Were all field duplicate RPDs within control limits?
EMF-DWP-1002-E2 if a field duplicate of EMF-DWP-1002-E1. The RPDs for sample results greater than ten times the MDL ranged from 1.4% to 12%. The sample results less than ten times the MDL were within the $\pm 2x$ MDL control limit for precision. | Y | |
| 12. Was the project completeness goal met? | Y | |

Comments:

Sample Collection, Transfer and Handling

Four soil samples were collected on October 16, 2002 and submitted to SVL Laboratories for TCLP metals and mercury under lab sample group 103716. The sample temperature upon receipt at the laboratory was 10°C. All samples were extracted and analyzed within the recommended holding times for each method.

Accuracy

The accuracy of the data was evaluated based on the laboratory control sample recoveries, matrix spike recoveries and blank sample results. All laboratory control sample recoveries were within the laboratory control limits. The matrix spike recoveries were within the laboratory control limits except for selenium. A post-digestion spike was performed for selenium, and the recovery was within laboratory control limits. Qualification of the data is not required. The analytes of interest were not detected in any method blanks. Field blanks were not submitted with this sample set.

Precision

The precision was evaluated based on the relative percent difference (RPD) between laboratory replicate and field duplicate sample results. All laboratory replicate RPDs and field duplicate RPDs were within the laboratory control limits and project precision limits.

Data Qualifications based on Data Evaluation

The analytical data did not require qualification based on the data evaluation. The data is considered usable as reported.

SVL ANALYTICAL, INC.

Certificate: ID

ID00019

One Government Gulch

P.O. Box 929

Kellogg, Idaho 83837-0929

Phone: (208)784-1258

Fax: (208)783-0891

CLIENT : JR SIMPLOT

PROJECT: 65699

CLIENT SAMPLE ID: EMF-DWP-1002-W1

Sample Collected: 10/16/02 14:38

Sample Receipt : 10/21/02

Date of Report : 10/23/02

As Received Basis

SVL JOB: 103690

SAMPLE: 314830

% Solids: 89.8%

Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
Corrosivity	5.8			9045	10/22/02
Silver	4.92	mg/kg		6010B	10/22/02
Arsenic	6.2	mg/kg		6010B	10/22/02
Barium	497	mg/kg		6010B	10/22/02
Cadmium	124	mg/kg		6010B	10/22/02
Chromium	1800	mg/kg		6010B	10/22/02
Mercury	3.57	mg/kg	10	7471	10/22/02
Lead	55.0	mg/kg		6010B	10/22/02
Selenium	9.7	mg/kg		6010B	10/22/02

Reviewed By:

Blake Johnson

Date

10/23/02

10/23/02 11:30

SVL ANALYTICAL, INC.

One Government Gulch

P.O. Box 929

Kellogg, Idaho 83837-0929

Certificate: ID

ID00019

Phone: (208)784-1258

Fax: (208)783-0891

CLIENT : JR SIMPLOT

PROJECT: 65699

CLIENT SAMPLE ID: EMF-DWP-1002-S1

Sample Collected: 10/16/02 15:03

Sample Receipt : 10/21/02

Date of Report : 10/23/02 As Received Basis

SVL JOB: 103690

SAMPLE: 314831

% Solids: 97.7%

Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
Corrosivity	7.3			9045	10/22/02
Silver	2.17	mg/kg		6010B	10/22/02
Arsenic	5.4	mg/kg		6010B	10/22/02
Barium	418	mg/kg		6010B	10/22/02
Cadmium	83.4	mg/kg		6010B	10/22/02
Chromium	771	mg/kg		6010B	10/22/02
Mercury	0.470	mg/kg		7471	10/22/02
Lead	22.4	mg/kg		6010B	10/22/02
Selenium	1.3	mg/kg		6010B	10/22/02

Reviewed By:

Blake Johnson

Date

10/23/02

10/23/02 11:30

SVL ANALYTICAL, INC.

One Government Gulch

P.O. Box 929

Kellogg, Idaho

83837-0929

Certificate: ID

ID00019

Phone: (208)784-1258

Fax: (208)783-0891

CLIENT : JR SIMPLOT

PROJECT: 65699

CLIENT SAMPLE ID: EMF-DWP-1002-E1

Sample Collected: 10/16/02 15:41

Sample Receipt : 10/21/02

Date of Report : 10/23/02

As Received Basis

SVL JOB: 103690

SAMPLE: 314832

% Solids: 71.4%

Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
Corrosivity	5.3			9045	10/22/02
Silver	3.68	mg/kg		6010B	10/22/02
Arsenic	9.0	mg/kg		6010B	10/22/02
Barium	539	mg/kg		6010B	10/22/02
Cadmium	121	mg/kg		6010B	10/22/02
Chromium	2170	mg/kg		6010B	10/22/02
Mercury	4.60	mg/kg	10	7471	10/22/02
Lead	74.5	mg/kg		6010B	10/22/02
Selenium	4.5	mg/kg		6010B	10/22/02

Reviewed By: Blahe JohnsonDate 10/23/02

10/23/02 11:30

SVL ANALYTICAL, INC.

Certificate: ID

ID00019

One Government Gulch

P.O. Box 929

Kellogg, Idaho 83837-0929

Phone: (208)784-1258

Fax: (208)783-0891

CLIENT : JR SIMPLOT

PROJECT: 65699

CLIENT SAMPLE ID: EMF-DWP-1002-E2

Sample Collected: 10/16/02 15:46

Sample Receipt : 10/21/02

Date of Report : 10/23/02

As Received Basis

SVL JOB: 103690

SAMPLE: 314833

% Solids: 71.1%

Matrix: SOIL

Determination	Result	Units	Dilution	Method	Analyzed
Corrosivity	5.4			9045	10/22/02
Silver	3.58	mg/kg		6010B	10/22/02
Arsenic	9.0	mg/kg		6010B	10/22/02
Barium	542	mg/kg		6010B	10/22/02
Cadmium	119	mg/kg		6010B	10/22/02
Chromium	2300	mg/kg		6010B	10/22/02
Mercury	4.66	mg/kg	10	7471	10/22/02
Lead	73.9	mg/kg		6010B	10/22/02
Selenium	3.0	mg/kg		6010B	10/22/02

Reviewed By:

Beate Johnson

Date

10/23/02

10/23/02 11:30

Part I Prep Blank and Laboratory Control Sample

Client :JR SIMPLOT					SVL JOB No: 103690			Analysis
Analyte	Method	Matrix	Units	Prep Blank	True—LCS—Found		LCS %R	Date
Silver	6010B	SOIL	mg/kg	<0.50	115	129	112.2	10/22/02
Arsenic	6010B	SOIL	mg/kg	<1.0	192	193	100.5	10/22/02
Barium	6010B	SOIL	mg/kg	<0.20	417	447	107.2	10/22/02
Cadmium	6010B	SOIL	mg/kg	<0.20	125	129	103.2	10/22/02
Chromium	6010B	SOIL	mg/kg	<0.60	133	141	106.0	10/22/02
Lead	6010B	SOIL	mg/kg	<0.50	160	165	103.1	10/22/02
Selenium	6010B	SOIL	mg/kg	<1.0	97.0	96.4	99.4	10/22/02
Mercury	7471	SOIL	mg/kg	<0.0333	24.0	23.1	96.3	10/22/02
Corrosivity	9045	SOIL		5.7	8.6	8.5	98.8	10/22/02

LEGEND:

LCS = Laboratory Control Sample

LCS %R = LCS Percent Recovery

N/A = Not Applicable

Part II Duplicate and Spike Analysis

Client :JR SIMPLOT				SVL JOB No: 103690						
Test Method Matrix		QC SAMPLE ID		Duplicate or MSD			Matrix Spike			Analysis
		Units	Result	Found	RPD%	Result	SPK ADD	%R	Date	
Ag	6010B SOIL	1 mg/kg	2.17	113	M	0.9	114	100	111.8	10/22/02
As	6010B SOIL	1 mg/kg	5.4	109	M	3.6	113	100	107.6	10/22/02
Ba	6010B SOIL	1 mg/kg	418	524	M	2.8	539	100	121.0	10/22/02
Cd	6010B SOIL	1 mg/kg	83.4	177	M	3.9	184	100	100.6	10/22/02
Cr	6010B SOIL	1 mg/kg	771	912	M	6.7	975	100	R >4S	10/22/02
Pb	6010B SOIL	1 mg/kg	22.4	115	M	3.4	119	100	96.6	10/22/02
Se	6010B SOIL	1 mg/kg	1.3	100	M	3.0	103	100	101.7	10/22/02
Hg	7471 SOIL	1 mg/kg	0.470	0.460		2.2	0.629	0.167	95.2	10/22/02
% Sol.	999 SOIL	1 %	97.7	97.3		0.4	N/A	N/A	N/A	10/22/02
CORR	9045 SOIL	1	7.3	7.3		0.0	N/A	N/A	N/A	10/22/02

LEGEND:

RPD% = $(|SAM - DUP| / ((SAM + DUP) / 2)) * 100$ UDL = Both SAM & DUP not detected. *Result or *Found: Interference required dilution.

RPD% = $(|SPK - MSD| / ((SPK + MSD) / 2)) * 100$ M in Duplicate/MSD column indicates MSD.

SPIKE ADD column, A = Post Digest Spike; %R = Percent Recovery N/A = Not Analyzed; R > 4S = Result more than 4X the Spike Added

QC sample 1: SVL SAM No.: 314831 Client Sample ID: EMF-DWP-1002-S1

103690

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY RECORD					ANALYSIS										SAMPLE DATA/ LAB INSTRUCTIONS			P.O.#:	
SAMPLE'S SIGNATURE			DATE		NUMBER AND TYPE OF CONTAINERS	T C L M E T A L S	A N I O N S	V O L A T I L I T Y	S E M I V O L A T I L I T Y	P C B S	C Y A N I D E	A S B E S T O S	P H	R E F R I G E R A T E D	L A B D I S P O S A L	PRESERVATIVE	LOGBOOK #:		
SAMPLE NUMBER	SAMPLE DATE	TIME	SAMPLE LOCATION	LOGBOOK #:															
																PROJECT/AREA:			
																COMMENTS/WCP#			
EMF-DWP-1002-W1	10-16-02	1438	WEST PIT	10250mL	X									X	X	X	N/A	GRAY SOLID POWDER	
EMF-DWP-1002-S1	10-16-02	1503	SOUTH PIT	10250mL	X									X	X	X	N/A	GRAY SOLID POWDER	
EMF-DWP-1002-E1	10-16-02	1541	EAST PIT	10250mL	X									X	X	X	N/A	GRAY SOLID POWDER	
EMF-DWP-1002-E2	10-16-02	1546	EAST PIT	10250mL	X									X	X	X	N/A	GRAY SOLID POWDER	
																		PLEASE RUSH	
																		FAX 208 234-5305	
Relinquished By Sampler: <u>James B. Strong</u> 10-16-02/1611 DATE/TIME					Received By: <u>[Signature]</u> 10/21/02 @ 9:52 DATE/TIME														
Relinquished By: _____ DATE/TIME					Received By: _____ DATE/TIME														
Relinquished By: _____ DATE/TIME					Received By: _____ DATE/TIME													Contact: RCRA ENVIRONMENTAL SPECIALIST J.R. SIMPLOT COMPANY (208) 234-5305 P.O. BOX 912 POCATELLO, ID 83204	
Relinquished By: _____ DATE/TIME					Received By: _____ DATE/TIME														
Relinquished By: _____ DATE/TIME					Received By: _____ DATE/TIME														